

Backup power battery project financing options in Italy 2026





Overview

Italy's ambitious drive towards renewable energy integration, targeting 50 GW solar and 28.1 GW wind capacity by 2030, has created distinct pathways for Battery Energy Storage System (BESS) investments - the MACSE auction and Capacity Market auctions. Choosing between these mechanisms.

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In part 1 of our series on backup power in Europe, we named Italy as one of the most attractive European countries for BESS investments. The Italian electricity sector is rapidly moving away from programmable thermal generation units to weather-dependent renewable generation. The Italian government.

Renewable Energy Targets: Italy aims for renewables to contribute over 40% of gross final energy consumption and 65% of electricity consumption by 2030, driving significant growth in renewable energy installations. Energy Storage Goals: To balance the grid with increased renewable energy, Italy.

Developer Emeren has sold two more Italy BESS projects to Matrix Renewables totalling 293MW, bringing the total projects developed and transferred to 1GW. The two projects in Apulia and Lazio are the latest in a development services agreement (DSA) the pair signed in June 2023 with the aim of.

The non-recourse debt financing will also cover the co-location of a battery energy storage system in Italy. Image: Recurrent Energy via LinkedIn. Independent power producer (IPP) Recurrent Energy has secured €61.5 million



(US\$71.4 million) in financing for its Italian renewable power portfolio.

Clean energy fund manager Nuveen Infrastructure (formerly Glennmont Partners) and renewables asset management and development firm Exus Renewables have agreed to co-develop 800MW of southern Italian battery storage projects, with each company co-developing a portfolio of 400MW. The deal will see. Is Italy a good place to invest in backup power?

In the third part of our series on backup power in Europe, we examine the lucrative BESS investment landscape of Italy. In part 1 of our series on backup power in Europe, we named Italy as one of the most attractive European countries for BESS investments.

Will Italy increase its solar power capacity in 2024?

In its most recent National Energy Climate Plan (NECP), Italy aims to increase its solar PV capacity from 36GW at the end of 2024 to 80GW in 2030. Wind generation capacity should increase from 13GW in 2024 to 28GW in 2030. Combined, this would entail a 60GW increase in intermittent generation capacity.

How much Bess capacity does Italy have in 2025?

As of March 2025, Italy has got 1GW of grid-scale BESS capacity online, placing the country in third place in Europe (shared with Ireland) in terms of installed capacity, behind Germany (1.6GW) and the UK (5.6GW). Another 1.75GW is under construction, projects totaling 230MW have obtained permits, and 1.2GW of new BESS capacity has been announced.

Should you invest in a capacity market in Italy?

The capacity market is well-suited to industrialised northern Italy with its developed infrastructure and higher industrial demand for power. While it offers 15-year contracts like MACSE, investors can stack their capacity payments (payments are then available when needed) on top of what they earn from selling energy in the wholesale market.

How much energy storage capacity does Italy have?

As of November 2024 Italy had 5.1 GW / 11.7 GWh of energy storage capacity. This is almost exclusively small-scale residential system, with utility-scale storage systems providing just 864 MW. To help achieve the target for utility-scale storage build-out, the Italian government has implemented the MACSE



subsidy scheme as supporting legislation.

Will the merchant business case improve with changes in Italy's regulatory landscape?

We do expect the merchant business case to improve with the changes in Italy's regulatory landscape under the Text of Electricity Dispatching Rules (TIDE). TIDE will lead to major changes in Italian electricity dispatch regulation, including an update of Italy's grid code.



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- LiFePO₄ Battery, safety
- Wide temperature: -20~55°C
- Modular design, easy to expand
- The heating function is optional
- Intelligent BMS
- Cycle Life: > 6000
- Warranty: 10 years

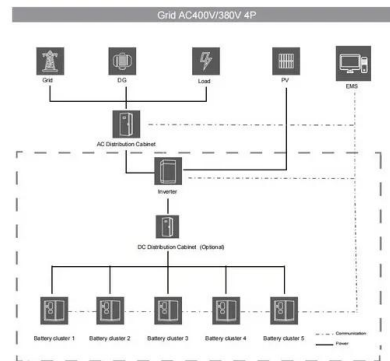


Italian battery projects: An 800MW portfolio in the ...

Clean energy fund manager Nuveen Infrastructure (formerly Glennmont Partners) and renewables asset management and development firm Exus Renewables have agreed to co-develop 800MW of southern Italian ...

2024 BESS revenue performance: a tale of 3 markets

3 key markets are leading battery deployment in Europe: GB, Germany & Italy. BESS deployment across these 3 markets alone could reach 45-50GW by 2030. There are ...



Glennmont and Exus agree 800MW Italian battery storage project

Glennmont Partners from Nuveen ("Glennmont"), one of the world's largest fund managers investing in clean energy, and Exus Renewables ("Exus"), independent renewables ...

[Financing battery storage+renewable energy](#)

The battery array may be owned by the same special purpose vehicle as the generation project, or may be established under its own vehicle with separate contractual arrangements and its ...



Portable Power Generators for Emergencies Market Outlook ...

Portable power generators are compact devices designed to provide temporary electricity during emergencies or power outages by converting mechanical energy into electrical power. These ...

BESS Investment in Italy: Which Market Option is Best?

Right now, battery storage projects aren't making enough money without some form of government support in Italy - that's why choosing between these market mechanisms is so crucial.



Funding opportunities

European funding opportunities Horizon Europe is the EU's key funding programme for research and innovation with a budget of EUR95.5 billion. The calls in the link below come from different open Horizon Europe calls that are of direct ...



Europe's renewables market powers battery storage boom

Europe's battery storage capacity is expected to grow around five-fold by 2030, bringing with it increasing returns for energy majors, project developers and traders, as the ...

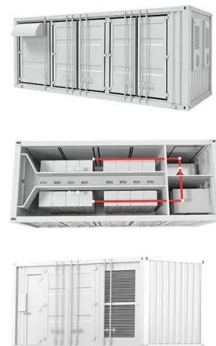


Virginia's Largest Battery Storage Project, Prospect Power, ...

Swift Current Energy has officially closed US\$242 million in project financing for its Prospect Power Storage facility. This marks a major milestone in the utility-scale storage ...

Statera obtains debt funding for 600MWh UK BESS

The battery energy storage system (BESS) and flexible generation projects are expected to begin operations in late 2026. Credit: Statera Energy. UK-based energy company Statera Energy has received £300m ...



Scatec and AMEA Power Secure Financing for Major Battery ...

The financial closure of two major large-scale projects in Egypt signifies a promising advance for the country's emerging energy storage sector. Recently, developers ...



Financing Battery Energy Storage for Sustainable ...

Explore financing options for battery energy storage systems and their role in promoting a sustainable energy future through innovative solutions and investments.



Home Battery Backup: A Guide to Emerging Power ...

During a power outage, the battery system automatically kicks in, providing electricity to keep essential appliances and systems running. Types of Home Battery Backup Systems There are several types of home battery ...

Emeren-Matrix Italy partnership reaches 1GW of ...

Just before Christmas, The EU Commission approved a EUR17.7 billion (US\$19.5 billion) state aid scheme in Italy to fund the rollout of the 9GW/71GWh of new energy storage that Terna has said the country needs.



Battery storage tax credit opportunities and ...

Revised February 13, 2023 Below are slides the authors prepared about tax credit opportunities and development challenges for battery storage. Tax benefits available after passage of the IRA: What is storage? ...



White paper BATTERY ENERGY STORAGE SYSTEMS ...

The majority of newly installed large-scale electricity storage systems in recent years utilise lithium-ion chemistries for increased grid resiliency and sustainability. The capacity of lithium ...



Financing Battery Energy Storage Systems - Meeting ...

Conclusion Battery energy storage systems represent a keystone for the transition towards a more sustainable energy generation and utilisation. Despite the value and advantages that they offer to enhance grid ...



BESS dominate new wins in capacity markets in Italy ...

A render of Engie's Kallo BESS in Belgium which won a contract. Image: Engie. Capacity market auctions have concluded in Italy and Belgium and battery energy storage system (BESS) projects won the lion's ...



Battery Energy Storage Financing Structures and Revenue ...

This Practice Note discusses changes to financing structures for battery storage projects after the enactment of the Inflation Reduction Act. This Note also discusses the fixed and variable ...



- IP65/IP55 OUTDOOR CABINET
- OUTDOOR MODULE CABINET
- OUTDOOR 5G BASE STATION CABINET
- WATERPROOF



The best home battery and backup systems of 2025: ...

We tested and researched the best home battery and backup systems from brands like EcoFlow and Tesla to help you find the right fit to keep you safe during outages or reduce your reliance on grid



BESS Investment in Italy: Which Market Option is Best?

Right now, battery storage projects aren't making enough money without some form of government support in Italy - that's why choosing between these market mechanisms is so crucial. The capacity market in the ...

Italian battery projects: An 800MW portfolio in the ...

The developer for all projects will be an undisclosed Italian developer specialising in battery storage systems. The project will use Alfen's The Battery Elements battery storage system built in a modular design, capable of ...



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